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# Search for Light Sterile Neutrinos With Eight Years of IceCube Data

IceCube is a gigaton-scale neutrino detector in Antartica. Its large volume enables the measurement of high-energy, in the TeV range, atmospheric neutrinos. Using eight years of through-going muon neutrino data collected by IceCube, we performed a search for light sterile neutrinos motivated by the short-baseline oscillation anomalies. This new result in muon-neutrino disappearance is unique in that the disappearance probability is enhanced with respect to vacuum expectation by matter effects.

## Mini-abstract

Results from the eight year sterile neutrino search in IceCube.

## Experiment/Collaboration

IceCube

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